

Teachers' participation in professional development

Professional development for current teachers includes both seminars offered by schools or school districts and courses affiliated with institutions of higher education. The extent to which teachers pursue professional development while continuing to teach may indicate either the commitment of the teaching profession to improve teaching practice or salary structures that reward participation in professional development.

- In school year 1993–94, 50 percent or more of full-time public school teachers participated in professional development on topics including uses of educational technology for instruction, methods of teaching in their subject field, student assessment, and cooperative learning in the classroom.
- Full-time public school teachers were more likely to participate in activities on all types of professional development topics than were full-time private school teachers. Full-time public elementary school teachers were more likely to participate in activities on four of the five types of professional development topics than were their secondary school counterparts.
- In school year 1993–94, 48 percent of full-time public school teachers received released time from teaching, and 41 percent received scheduled time for professional development. Twenty-two percent received none of the types of support listed.
- Full-time public school teachers were more likely to receive professional growth credits and released and scheduled time from teaching than were their private school counterparts. However, private school teachers were more likely to receive tuition and/or fees than were public school teachers.
- In recent years, teacher induction programs appeared to be more prevalent. For example, public elementary and secondary teachers with less than 4 years of teaching experience were more likely to have participated in a formal teacher induction program in their first year of teaching than were teachers with 4 or more years of experience (see supplemental table 40-1).

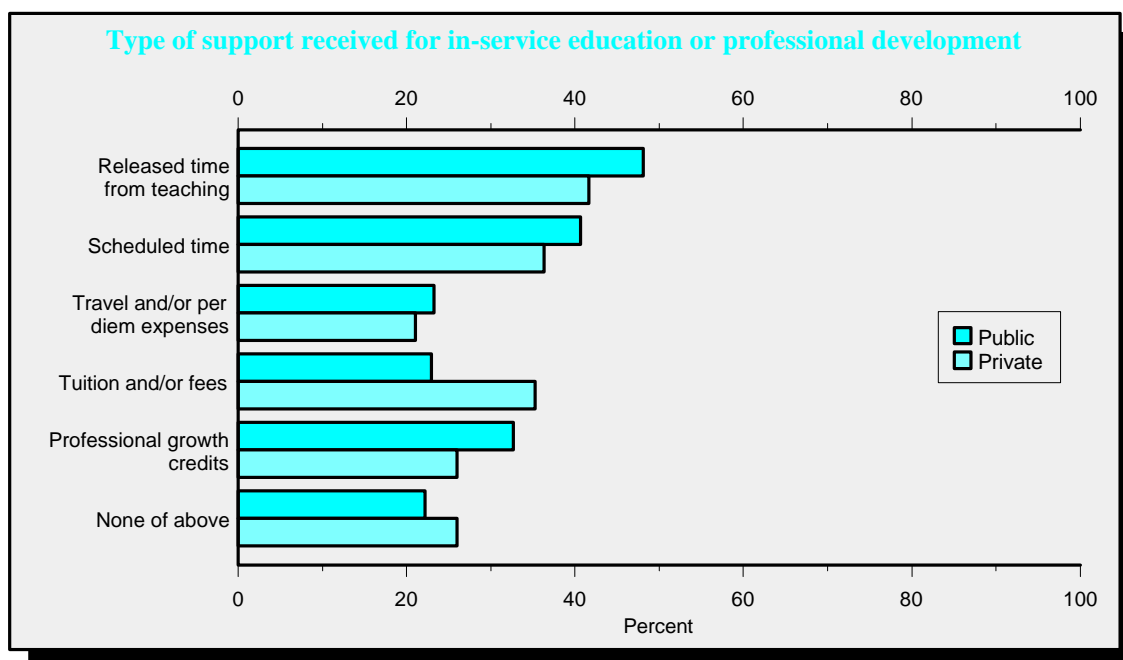
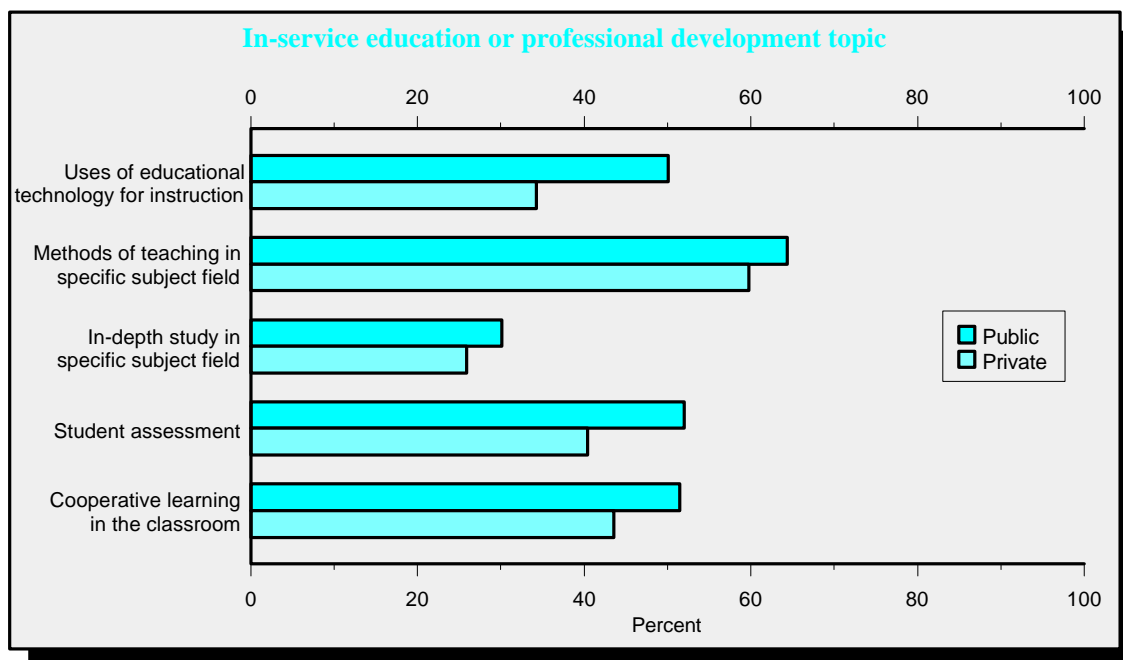
Percentage of full-time teachers who participated in professional development during the 1993–94 school year, by topic, type of support received, and control and level of school

| Professional development topic and type of support received | Public | | | Private | | |
|--------------------------------------------------------------------------------------------------------------|--------|------------|-----------|---------|------------|-----------|
| | Total | Elementary | Secondary | Total | Elementary | Secondary |
| In-service education or professional development topic | | | | | | |
| Uses of educational technology for instruction | 50.1 | 49.7 | 50.7 | 34.3 | 32.8 | 38.5 |
| Methods of teaching in specific subject field | 64.4 | 69.7 | 55.0 | 59.8 | 63.1 | 50.8 |
| In-depth study in specific field | 30.1 | 31.6 | 27.5 | 25.9 | 24.7 | 29.2 |
| Student assessment | 52.0 | 55.4 | 45.8 | 40.4 | 42.5 | 34.7 |
| Cooperative learning in the classroom | 51.5 | 52.7 | 49.2 | 43.6 | 45.5 | 38.5 |
| Type of support received during the 1993–94 school year for in-service education or professional development | | | | | | |
| Released time from teaching | 48.1 | 50.7 | 43.5 | 41.7 | 42.6 | 39.2 |
| Scheduled time | 40.7 | 43.6 | 35.4 | 36.3 | 37.1 | 34.3 |
| Travel and/or per diem expenses | 23.3 | 21.2 | 26.9 | 21.1 | 19.8 | 24.6 |
| Tuition and/or fees | 23.0 | 24.3 | 20.7 | 35.3 | 36.0 | 33.3 |
| Professional growth credits | 32.7 | 34.8 | 28.9 | 26.0 | 27.7 | 21.3 |
| None of the above | 22.2 | 19.4 | 27.1 | 26.0 | 25.1 | 28.4 |

NOTE: Excludes a small number of teachers whose schools did not respond to the questionnaire.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993–94 (Teacher Questionnaire).

Percentage of full-time teachers who participated in professional development during the 1993–94 school year, by control of school



SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993–94 (Teacher Questionnaire).

Percentage of full-time teachers who participated in professional development during the 1993-94 school year, by topic, type of support received, and control and level of school

| Professional development topic and type of support received | Public | | | Private | | |
|--------------------------------------------------------------------------------------------------------------|--------|------------|-----------|---------|------------|-----------|
| | Total | Elementary | Secondary | Total | Elementary | Secondary |
| In-service education or professional development topic | | | | | | |
| Uses of educational technology for instruction | 50.1 | 49.7 | 50.7 | 34.3 | 32.8 | 38.5 |
| Methods of teaching in specific subject field | 64.4 | 69.7 | 55.0 | 59.8 | 63.1 | 50.8 |
| In-depth study in specific field | 30.1 | 31.6 | 27.5 | 25.9 | 24.7 | 29.2 |
| Student assessment | 52.0 | 55.4 | 45.8 | 40.4 | 42.5 | 34.7 |
| Cooperative learning in the classroom | 51.5 | 52.7 | 49.2 | 43.6 | 45.5 | 38.5 |
| Type of support received during the 1993-94 school year for in-service education or professional development | | | | | | |
| Released time from teaching | 48.1 | 50.7 | 43.5 | 41.7 | 42.6 | 39.2 |
| Scheduled time | 40.7 | 43.6 | 35.4 | 36.3 | 37.1 | 34.3 |
| Travel and/or per diem expenses | 23.3 | 21.2 | 26.9 | 21.1 | 19.8 | 24.6 |
| Tuition and/or fees | 23.0 | 24.3 | 20.7 | 35.3 | 36.0 | 33.3 |
| Professional growth credits | 32.7 | 34.8 | 28.9 | 26.0 | 27.7 | 21.3 |
| None of the above | 22.2 | 19.4 | 27.1 | 26.0 | 25.1 | 28.4 |

NOTE: Excludes a small number of teachers whose schools did not respond to the questionnaire.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993-94 (Teacher Questionnaire).

Table 40-1 Percentage of teachers who participated in a formal teacher induction or a master or mentor program, by years of teaching experience and control and level of school: 1994

| Control and level of school | Participated in a formal teacher induction program during first year of teaching | | | Master or mentor program |
|-----------------------------|----------------------------------------------------------------------------------|-------------|-----------------|--------------------------|
| | 1 year | 2-3 years | 4 years or more | |
| Public | 59.9 | 54.8 | 23.3 | 11.3 |
| Elementary | 59.4 | 54.5 | 23.8 | 11.4 |
| Secondary | 60.7 | 55.3 | 22.5 | 11.3 |
| Private | 30.2 | 33.8 | 24.2 | 10.1 |
| Elementary | 26.8 | 31.7 | 23.5 | 8.9 |
| Secondary | 42.7 | 39.5 | 26.0 | 13.7 |

NOTE: Excludes a small number of teachers whose schools did not respond to the questionnaire.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993-94 (Teacher Questionnaire).

Table 40-2 Percentage of teachers who participated in professional development activities during the 1993-94 school year, by topic, type of support and activity, outcomes, and level, control and urbanicity of school

| Topic, type of support and activity, and outcomes of professional development | Elementary teachers | | | | Secondary teachers | | | |
|--------------------------------------------------------------------------------------------------------------|---------------------|-----------------|-----------------------|---------------|--------------------|-----------------|-----------------------|---------------|
| | Total | Central city | Urban | Rural/ | Total | Central city | Urban | Rural/ |
| | | | fringe/ large town | small town | | | fringe/ large town | small town |
| Public | | | | | | | | |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 49.7 | 51.6 | 51.7 | 46.7 | 50.7 | 50.8 | 51.8 | 49.9 |
| Methods of teaching in specific subject field | 69.7 | 73.4 | 70.8 | 65.9 | 55.0 | 59.1 | 55.3 | 52.2 |
| In-depth study in specific field | 31.6 | 36.6 | 31.1 | 28.1 | 27.5 | 30.8 | 27.5 | 25.4 |
| Student assessment | 55.4 | 56.8 | 58.2 | 52.2 | 45.8 | 46.7 | 45.7 | 45.3 |
| Cooperative learning in the classroom | 52.7 | 56.6 | 50.7 | 51.4 | 49.2 | 52.1 | 49.0 | 47.5 |
| Type of support received during 1993–94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 50.7 | 50.4 | 52.8 | 49.3 | 43.5 | 42.2 | 43.6 | 44.2 |
| Scheduled time (built-in time) | 43.6 | 47.1 | 42.5 | 41.9 | 35.4 | 37.9 | 34.1 | 35.0 |
| Travel and/or per diem expenses | 21.2 | 15.3 | 18.2 | 28.1 | 26.9 | 21.5 | 23.5 | 32.7 |
| Tuition and/or fees | 24.3 | 20.9 | 24.2 | 26.9 | 20.7 | 17.0 | 20.3 | 23.2 |
| Professional growth credits | 34.8 | 35.5 | 34.1 | 34.8 | 28.9 | 30.7 | 27.5 | 29.0 |
| None of above | 19.4 | 20.1 | 18.4 | 19.7 | 27.1 | 27.0 | 28.3 | 26.3 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 89.6 | 87.7 | 91.0 | 89.9 | 84.9 | 82.8 | 84.7 | 86.3 |
| School sponsored workshop or in-service | 83.7 | 86.4 | 83.2 | 82.1 | 79.1 | 81.5 | 78.7 | 78.0 |
| University extension or adult education course | 25.1 | 25.3 | 25.1 | 24.9 | 25.5 | 23.9 | 26.5 | 25.7 |
| College course in specific subject field | 26.1 | 26.5 | 25.1 | 26.6 | 24.3 | 22.6 | 23.8 | 25.7 |
| Professional association sponsored workshop | 50.5 | 49.2 | 52.0 | 50.3 | 51.9 | 51.3 | 53.1 | 51.5 |
| Those who agreed with the following statements about their in-service education or professional development* | | | | | | | | |
| Provided information that was new to me | 85.4 | 85.3 | 86.4 | 84.8 | 83.0 | 81.2 | 83.4 | 83.7 |
| Changed my views on teaching | 44.0 | 45.4 | 41.4 | 44.9 | 38.6 | 38.7 | 38.8 | 38.4 |
| Caused me to change my teaching practices | 68.0 | 66.6 | 69.3 | 68.0 | 59.5 | 57.6 | 61.5 | 59.1 |
| Caused me to seek further information or training | 64.6 | 64.5 | 66.0 | 63.4 | 59.1 | 59.5 | 59.6 | 58.3 |
| Were generally a waste of my time | 9.1 | 9.7 | 8.0 | 9.6 | 13.8 | 15.9 | 13.1 | 13.2 |
| Private | | | | | | | | |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 32.8 | 33.9 | 33.1 | 29.4 | 38.5 | 37.0 | 39.7 | 40.0 |
| Methods of teaching in specific subject field | 63.1 | 66.7 | 60.6 | 60.1 | 50.8 | 52.1 | 50.5 | 48.0 |
| In-depth study in specific field | 24.7 | 24.6 | 25.3 | 23.6 | 29.2 | 28.8 | 29.7 | 29.3 |
| Student assessment | 42.5 | 46.8 | 40.3 | 37.2 | 34.7 | 36.2 | 34.0 | 32.4 |
| Cooperative learning in the classroom | 45.5 | 49.7 | 44.2 | 38.5 | 38.5 | 40.8 | 37.0 | 35.3 |
| Type of support received during 1993–94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 42.6 | 41.4 | 42.6 | 45.4 | 39.2 | 38.2 | 38.9 | 42.7 |
| Scheduled time (built-in time) | 37.1 | 39.4 | 35.7 | 34.7 | 34.3 | 36.2 | 34.1 | 29.3 |
| Travel and/or per diem expenses | 19.8 | 18.2 | 17.2 | 29.6 | 24.6 | 21.8 | 22.7 | 36.4 |
| Tuition and/or fees | 36.0 | 32.3 | 38.5 | 39.3 | 33.3 | 28.6 | 35.9 | 40.7 |
| Professional growth credits | 27.7 | 28.7 | 25.3 | 30.6 | 21.3 | 21.0 | 21.9 | 20.9 |
| None of above | 25.1 | 25.4 | 25.3 | 24.0 | 28.4 | 30.0 | 26.8 | 27.6 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 78.9 | 78.7 | 78.2 | 80.9 | 68.9 | 71.0 | 67.9 | 65.3 |
| School sponsored workshop or in-service | 78.0 | 77.9 | 79.0 | 75.8 | 78.4 | 80.6 | 78.8 | 71.4 |
| University extension or adult education course | 24.8 | 26.6 | 21.3 | 28.0 | 23.6 | 24.7 | 22.8 | 22.4 |
| College course in specific subject field | 23.7 | 25.3 | 20.9 | 26.1 | 24.1 | 25.0 | 22.9 | 23.9 |
| Professional association sponsored workshop | 46.8 | 47.7 | 45.5 | 47.6 | 48.2 | 49.0 | 48.2 | 45.8 |
| Those who agreed with the following statements about their in-service education or professional development* | | | | | | | | |
| Provided information that was new to me | 85.2 | 84.8 | 84.9 | 86.8 | 87.1 | 84.4 | 88.4 | 92.0 |
| Changed my views on teaching | 41.9 | 41.9 | 40.0 | 46.4 | 43.7 | 40.3 | 46.5 | 47.3 |
| Caused me to change my teaching practices | 65.0 | 63.9 | 64.1 | 70.0 | 62.8 | 61.0 | 65.8 | 61.6 |
| Caused me to seek further information or training | 61.2 | 60.6 | 60.6 | 64.1 | 62.5 | 60.6 | 64.5 | 63.5 |
| Were generally a waste of my time | 6.8 | 7.2 | 6.8 | 5.8 | 9.4 | 11.3 | 8.6 | 5.6 |

* Includes those who responded "strongly agree" or "agree."

NOTE: Excludes a small number of teachers whose schools did not respond to the questionnaire.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993-94 (Teacher Questionnaire).

Table 40-3 Percentage of public teachers who participated in professional development activities during the 1993-94 school year, by topic, type of support and activity, outcomes, level of school, and percentage of students eligible for free or reduced-price lunch

| Topic, type of support and activity, and outcomes of professional development | Elementary teachers | | | | Secondary teachers | | | |
|--------------------------------------------------------------------------------------------------------------|---------------------|------|-------|--------|--------------------|------|-------|--------|
| | 0-5 | 6-20 | 21-40 | 41-100 | 0-5 | 6-20 | 21-40 | 41-100 |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 55.6 | 53.6 | 50.2 | 46.7 | 55.0 | 51.0 | 48.2 | 50.1 |
| Methods of teaching in specific subject field | 70.3 | 68.8 | 69.0 | 70.7 | 54.3 | 53.2 | 55.1 | 58.2 |
| In-depth study in specific field | 33.2 | 31.7 | 28.8 | 32.8 | 26.6 | 26.7 | 27.6 | 28.9 |
| Student assessment | 62.7 | 55.0 | 54.5 | 55.2 | 45.5 | 42.9 | 47.9 | 48.2 |
| Cooperative learning in the classroom | 49.2 | 51.3 | 50.3 | 55.4 | 50.1 | 46.9 | 49.2 | 52.2 |
| Type of support received during 1993-94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 56.2 | 54.9 | 49.0 | 48.7 | 43.0 | 45.0 | 42.6 | 42.2 |
| Scheduled time (built-in time) | 42.2 | 40.4 | 42.8 | 45.7 | 34.6 | 33.8 | 36.0 | 38.2 |
| Travel and/or per diem expenses | 19.5 | 22.2 | 23.6 | 20.0 | 26.7 | 26.7 | 27.5 | 26.9 |
| Tuition and/or fees | 28.5 | 26.4 | 25.9 | 21.6 | 20.4 | 21.6 | 21.1 | 19.1 |
| Professional growth credits | 37.0 | 33.7 | 36.4 | 34.4 | 28.7 | 28.0 | 28.6 | 30.3 |
| None of above | 16.0 | 19.2 | 19.4 | 20.0 | 26.8 | 27.1 | 27.7 | 27.2 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 90.4 | 91.0 | 90.5 | 88.5 | 83.9 | 85.2 | 85.5 | 84.3 |
| School sponsored workshop or in-service | 79.4 | 83.8 | 84.2 | 84.6 | 77.6 | 77.9 | 80.5 | 81.5 |
| University extension or adult education course | 25.8 | 26.4 | 25.2 | 24.4 | 27.1 | 25.6 | 25.1 | 24.4 |
| College course in specific subject field | 25.7 | 26.3 | 25.0 | 26.4 | 25.0 | 23.7 | 24.1 | 24.1 |
| Professional association sponsored workshop | 53.4 | 55.5 | 49.9 | 48.2 | 55.0 | 51.7 | 51.1 | 50.5 |
| Those who agreed with the following statements about their in-service education or professional development* | | | | | | | | |
| Provided information that was new to me | 87.8 | 86.1 | 86.8 | 84.0 | 84.0 | 83.2 | 82.8 | 82.2 |
| Changed my views on teaching | 44.7 | 44.3 | 42.2 | 44.5 | 40.5 | 38.7 | 37.4 | 38.5 |
| Caused me to change my teaching practices | 73.4 | 67.2 | 68.0 | 67.2 | 60.7 | 60.6 | 58.6 | 57.8 |
| Caused me to seek further information or training | 67.2 | 66.1 | 63.5 | 63.9 | 58.4 | 59.1 | 59.9 | 58.8 |
| Were generally a waste of my time | 8.9 | 9.1 | 7.8 | 9.9 | 12.6 | 13.6 | 14.2 | 14.6 |

* Includes those who responded "strongly agree" or "agree."

NOTE: Excludes a small number of teachers whose schools did not respond to the questionnaire.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993-94 (Teacher Questionnaire).

Table 40-4 Percentage of teachers who participated in professional development activities during the 1993–94 school year, by topic, type of support and activity, outcomes, level and control of school, and school size

| Topic, type of support and activity, and outcomes of professional development | Elementary teachers | | | | Secondary teachers | | | |
|--------------------------------------------------------------------------------------------------------------|---------------------|---------|---------|-------------|--------------------|---------|---------|-------------|
| | Less than 150 | 150–499 | 500–749 | 750 or more | Less than 150 | 150–499 | 500–749 | 750 or more |
| Public | | | | | | | | |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 42.4 | 48.0 | 50.5 | 52.2 | 50.9 | 50.3 | 48.9 | 51.3 |
| Methods of teaching in specific subject field | 57.4 | 68.9 | 70.2 | 71.4 | 50.0 | 52.7 | 54.9 | 55.8 |
| In-depth study in specific field | 26.8 | 31.0 | 31.8 | 32.6 | 26.0 | 25.6 | 26.6 | 28.2 |
| Student assessment | 47.8 | 56.3 | 55.0 | 55.2 | 44.8 | 45.9 | 48.0 | 45.3 |
| Cooperative learning in the classroom | 43.2 | 51.6 | 52.9 | 55.4 | 42.4 | 45.9 | 50.0 | 50.1 |
| Type of support received during 1993–94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 51.0 | 51.5 | 50.9 | 49.0 | 50.1 | 47.9 | 44.4 | 41.8 |
| Scheduled time (built-in time) | 38.0 | 43.7 | 44.1 | 43.3 | 34.0 | 34.3 | 35.7 | 35.7 |
| Travel and/or per diem expenses | 27.8 | 24.2 | 19.1 | 18.6 | 37.2 | 34.2 | 28.7 | 24.1 |
| Tuition and/or fees | 30.4 | 26.8 | 22.8 | 21.5 | 24.0 | 23.8 | 21.4 | 19.6 |
| Professional growth credits | 31.2 | 35.1 | 34.7 | 34.6 | 34.8 | 29.9 | 26.9 | 28.9 |
| None of above | 21.1 | 18.2 | 19.5 | 21.3 | 22.5 | 25.7 | 26.6 | 27.9 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 89.0 | 90.3 | 90.6 | 86.8 | 87.0 | 86.3 | 85.9 | 84.1 |
| School sponsored workshop or in-service | 79.5 | 81.9 | 84.4 | 86.2 | 81.8 | 78.4 | 79.0 | 79.2 |
| University extension or adult education course | 31.7 | 25.2 | 25.6 | 23.6 | 28.9 | 26.6 | 25.9 | 24.9 |
| College course in specific subject field | 34.8 | 27.1 | 25.0 | 25.0 | 30.0 | 25.8 | 24.0 | 23.7 |
| Professional association sponsored workshop | 53.5 | 51.9 | 50.5 | 47.9 | 47.6 | 55.1 | 52.1 | 51.3 |
| Those who agreed with the following statements about their in-service education or professional development* | | | | | | | | |
| Provided information that was new to me | 84.4 | 85.3 | 86.9 | 83.5 | 82.9 | 83.2 | 83.2 | 82.9 |
| Changed my views on teaching | 40.9 | 44.1 | 45.2 | 42.1 | 33.6 | 40.4 | 40.3 | 38.0 |
| Caused me to change my teaching practices | 64.5 | 68.0 | 69.7 | 65.6 | 55.2 | 60.0 | 60.8 | 59.2 |
| Caused me to seek further information or training | 64.8 | 65.2 | 64.6 | 63.4 | 57.5 | 60.5 | 58.8 | 58.8 |
| Were generally a waste of my time | 5.3 | 9.4 | 8.6 | 9.8 | 13.4 | 13.0 | 13.5 | 14.2 |
| Private | | | | | | | | |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 26.6 | 34.4 | 36.6 | 41.9 | 26.2 | 39.4 | 42.2 | 39.9 |
| Methods of teaching in specific subject field | 55.4 | 65.0 | 68.0 | 78.9 | 46.6 | 51.2 | 51.3 | 51.8 |
| In-depth study in specific field | 20.3 | 25.7 | 27.1 | 36.0 | 21.9 | 30.7 | 31.3 | 28.7 |
| Student assessment | 33.8 | 44.4 | 51.4 | 52.7 | 25.0 | 37.2 | 35.2 | 35.2 |
| Cooperative learning in the classroom | 35.1 | 48.1 | 52.8 | 61.7 | 33.6 | 39.1 | 37.8 | 40.3 |
| Type of support received during 1993–94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 38.6 | 43.7 | 46.6 | 41.3 | 35.7 | 41.0 | 42.4 | 36.0 |
| Scheduled time (built-in time) | 36.7 | 37.1 | 37.8 | 36.1 | 34.1 | 33.2 | 31.7 | 37.7 |
| Travel and/or per diem expenses | 25.2 | 18.6 | 12.8 | 18.9 | 25.0 | 25.1 | 25.5 | 23.0 |
| Tuition and/or fees | 34.1 | 36.5 | 36.1 | 42.0 | 22.1 | 37.1 | 34.3 | 31.8 |
| Professional growth credits | 23.9 | 28.4 | 34.9 | 24.1 | 15.3 | 19.4 | 24.3 | 24.4 |
| None of above | 28.0 | 24.2 | 22.9 | 27.3 | 39.4 | 28.6 | 23.7 | 26.9 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 71.2 | 81.0 | 82.5 | 92.6 | 66.0 | 68.5 | 70.1 | 69.9 |
| School sponsored workshop or in-service | 65.6 | 81.7 | 85.5 | 85.7 | 69.1 | 77.1 | 81.4 | 82.1 |
| University extension or adult education course | 23.2 | 25.9 | 20.8 | 25.3 | 24.7 | 24.3 | 21.5 | 23.7 |
| College course in specific subject field | 22.7 | 24.1 | 27.2 | 11.8 | 18.0 | 24.7 | 25.6 | 24.7 |
| Professional association sponsored workshop | 42.1 | 47.6 | 56.4 | 43.4 | 33.5 | 46.1 | 54.7 | 52.7 |
| Those who agreed with the following statements about their in-service education or professional development* | | | | | | | | |
| Provided information that was new to me | 83.7 | 86.3 | 84.7 | 72.7 | 93.9 | 88.5 | 85.8 | 83.5 |
| Changed my views on teaching | 40.3 | 43.4 | 41.9 | 21.0 | 51.2 | 40.6 | 35.9 | 50.9 |
| Caused me to change my teaching practices | 66.9 | 64.9 | 64.1 | 55.6 | 69.7 | 60.0 | 60.3 | 66.2 |
| Caused me to seek further information or training | 61.4 | 61.9 | 59.5 | 49.2 | 72.2 | 61.3 | 64.9 | 58.8 |
| Were generally a waste of my time | 4.6 | 7.5 | 5.4 | 11.7 | 7.6 | 10.7 | 7.9 | 9.3 |

* Includes those who responded "strongly agree" or "agree."

NOTE: Excludes a small number of teachers whose schools did not respond to the questionnaire.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993–94 (Teacher Questionnaire).

Table 40-5 Percentage of public school teachers who participated in professional development activities during the 1993–94 school year, by topic, type of support and activity, outcomes, and percentage of students eligible for free or reduced-priced lunch within urbanicity

| Topic, type of support and activity, and outcomes of professional development | Central city | | | | Urban fringe/large town | | | | Rural/small town | | | |
|--------------------------------------------------------------------------------------------------------------|--------------|------|-------|--------|-------------------------|------|-------|--------|------------------|------|-------|--------|
| | 0–5 | 6–20 | 21–40 | 41–100 | 0–5 | 6–20 | 21–40 | 41–100 | 0–5 | 6–20 | 21–40 | 41–100 |
| In-service education or professional development topic | | | | | | | | | | | | |
| Uses of educational technology for instruction | 61.3 | 59.6 | 49.7 | 48.2 | 55.4 | 52.1 | 51.1 | 48.2 | 52.1 | 48.8 | 48.5 | 46.2 |
| Methods of teaching in specific subject field | 64.3 | 65.7 | 69.2 | 70.5 | 62.3 | 64.3 | 66.5 | 68.7 | 60.3 | 55.3 | 59.8 | 65.6 |
| In-depth study in specific field | 36.6 | 33.0 | 32.7 | 35.9 | 27.8 | 31.1 | 29.3 | 30.4 | 30.7 | 25.5 | 25.6 | 28.8 |
| Student assessment | 58.2 | 49.4 | 51.7 | 54.7 | 54.3 | 51.5 | 57.4 | 54.5 | 50.4 | 46.3 | 49.3 | 52.5 |
| Cooperative learning in the classroom | 54.6 | 51.2 | 53.3 | 57.4 | 47.9 | 49.8 | 47.8 | 54.1 | 51.1 | 47.3 | 49.3 | 52.3 |
| Type of support received during 1993–94 school year for in-service education or professional development | | | | | | | | | | | | |
| Released time from teaching | 43.2 | 52.5 | 46.4 | 46.9 | 51.1 | 50.9 | 48.4 | 47.2 | 48.5 | 47.8 | 46.0 | 48.0 |
| Scheduled time (built-in time) | 40.4 | 42.0 | 42.1 | 46.0 | 37.4 | 37.8 | 40.4 | 42.6 | 39.1 | 33.9 | 39.3 | 43.2 |
| Travel and/or per diem expenses | 20.7 | 25.1 | 18.3 | 14.0 | 22.2 | 20.0 | 21.2 | 17.6 | 26.8 | 28.7 | 30.5 | 31.0 |
| Tuition and/or fees | 19.8 | 20.8 | 20.3 | 18.5 | 25.0 | 23.6 | 23.6 | 18.6 | 24.9 | 25.9 | 26.3 | 25.0 |
| Professional growth credits | 40.3 | 35.0 | 35.7 | 31.9 | 30.1 | 30.1 | 34.0 | 34.0 | 34.5 | 29.5 | 32.1 | 35.1 |
| None of above | 22.4 | 21.9 | 21.6 | 22.7 | 22.6 | 22.4 | 22.2 | 21.7 | 19.0 | 24.5 | 23.1 | 20.0 |
| Type of professional development activity | | | | | | | | | | | | |
| School district sponsored workshop or in-service | 83.9 | 87.3 | 88.2 | 85.3 | 87.1 | 89.3 | 90.2 | 87.9 | 88.3 | 87.3 | 88.1 | 89.9 |
| School sponsored workshop or in-service | 83.9 | 84.6 | 85.1 | 84.8 | 78.1 | 80.7 | 83.8 | 84.3 | 76.7 | 79.1 | 81.2 | 82.9 |
| University extension or adult education course | 21.9 | 24.7 | 25.5 | 25.1 | 27.0 | 26.5 | 26.2 | 22.9 | 27.5 | 26.2 | 24.4 | 24.4 |
| College course in specific subject field | 22.7 | 23.7 | 23.1 | 26.5 | 24.4 | 24.1 | 25.9 | 24.0 | 28.7 | 26.7 | 24.8 | 26.2 |
| Professional association sponsored workshop | 56.6 | 53.3 | 53.0 | 47.0 | 53.0 | 53.9 | 51.2 | 49.9 | 55.6 | 53.4 | 48.6 | 49.7 |
| Those who agreed with the following statements about their in-service education or professional development* | | | | | | | | | | | | |
| Provided information that was new to me | 84.1 | 84.5 | 84.7 | 83.7 | 85.8 | 85.5 | 85.2 | 84.7 | 87.1 | 83.9 | 85.8 | 83.1 |
| Changed my views on teaching | 41.6 | 41.2 | 41.7 | 44.9 | 41.7 | 41.1 | 36.4 | 41.8 | 45.0 | 42.4 | 42.2 | 42.5 |
| Caused me to change my teaching practices | 69.2 | 61.7 | 63.3 | 64.3 | 66.2 | 65.6 | 65.7 | 68.8 | 67.6 | 63.7 | 64.8 | 65.0 |
| Caused me to seek further information or training | 65.9 | 63.2 | 63.3 | 62.8 | 62.9 | 64.3 | 62.5 | 64.5 | 61.0 | 60.9 | 61.5 | 62.2 |
| Were generally a waste of my time | 13.7 | 12.6 | 10.2 | 11.3 | 10.2 | 10.3 | 9.2 | 9.3 | 10.5 | 11.5 | 10.5 | 11.1 |

* Includes those who responded "strongly agree" or "agree."

NOTE: Excludes a small number of teachers whose schools did not respond to the questionnaire.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993–94 (Teacher Questionnaire).

Table 40-6 Percentage of all teachers who participated in professional development activities, by professional development topic and state: 1994

| State | Uses of educational technology for instruction | Methods of teaching in specific subject field | In-depth study in specific field | Student assessment | Cooperative learning in the classroom |
|----------------------|------------------------------------------------|-----------------------------------------------|----------------------------------|--------------------|---------------------------------------|
| All states | 48.8 | 64.0 | 29.8 | 51.1 | 50.8 |
| Alabama | 43.2 | 71.2 | 35.2 | 52.1 | 54.1 |
| Alaska | 63.9 | 63.0 | 35.6 | 50.9 | 43.2 |
| Arizona | 45.8 | 56.0 | 26.4 | 53.8 | 43.5 |
| Arkansas | 33.3 | 68.4 | 27.8 | 47.5 | 49.1 |
| California | 52.6 | 75.8 | 39.8 | 66.8 | 51.3 |
| Colorado | 53.1 | 58.4 | 30.5 | 55.7 | 40.2 |
| Connecticut | 46.4 | 70.7 | 37.6 | 58.9 | 52.7 |
| Delaware | 45.6 | 66.1 | 30.4 | 59.5 | 48.6 |
| District of Columbia | 49.9 | 66.0 | 36.4 | 48.5 | 66.4 |
| Florida | 62.2 | 66.9 | 30.6 | 45.5 | 53.3 |
| Georgia | 45.2 | 59.6 | 24.6 | 37.7 | 48.6 |
| Hawaii | 54.8 | 69.8 | 39.9 | 57.1 | 62.2 |
| Idaho | 42.2 | 61.0 | 28.8 | 40.7 | 45.7 |
| Illinois | 39.0 | 53.1 | 21.6 | 53.5 | 42.8 |
| Indiana | 49.7 | 55.7 | 22.7 | 37.7 | 46.3 |
| Iowa | 55.5 | 57.9 | 25.8 | 54.0 | 42.8 |
| Kansas | 58.2 | 63.3 | 27.5 | 54.2 | 46.3 |
| Kentucky | 75.1 | 75.0 | 37.0 | 87.3 | 72.1 |
| Louisiana | 39.9 | 67.1 | 29.1 | 47.6 | 50.6 |
| Maine | 39.3 | 59.5 | 27.4 | 50.7 | 51.7 |
| Maryland | 46.4 | 65.2 | 23.1 | 54.4 | 58.5 |
| Massachusetts | 42.1 | 60.9 | 29.6 | 43.8 | 54.5 |
| Michigan | 42.3 | 62.3 | 25.6 | 51.4 | 47.5 |
| Minnesota | 53.2 | 62.9 | 32.4 | 49.7 | 44.2 |
| Mississippi | 45.1 | 65.9 | 30.8 | 66.3 | 65.7 |
| Missouri | 45.2 | 57.1 | 24.0 | 42.9 | 44.9 |
| Montana | 54.7 | 59.8 | 28.3 | 43.1 | 45.9 |
| Nebraska | 56.7 | 55.2 | 24.6 | 46.4 | 42.7 |
| Nevada | 30.0 | 62.7 | 31.4 | 40.2 | 44.6 |
| New Hampshire | 49.3 | 71.4 | 43.9 | 53.0 | 55.4 |
| New Jersey | 49.2 | 64.4 | 26.7 | 47.6 | 49.4 |
| New Mexico | 43.0 | 55.2 | 24.3 | 43.9 | 52.5 |
| New York | 37.0 | 57.6 | 25.0 | 43.0 | 44.3 |
| North Carolina | 55.6 | 69.8 | 32.2 | 57.6 | 55.3 |
| North Dakota | 54.9 | 56.3 | 27.0 | 33.8 | 40.5 |
| Ohio | 40.9 | 61.9 | 29.0 | 44.3 | 47.8 |
| Oklahoma | 46.4 | 65.0 | 27.7 | 54.1 | 60.4 |
| Oregon | 45.6 | 63.2 | 26.9 | 55.3 | 39.0 |
| Pennsylvania | 42.1 | 57.8 | 24.0 | 48.7 | 50.2 |
| Rhode Island | 37.5 | 53.8 | 21.9 | 46.5 | 48.5 |
| South Carolina | 40.5 | 61.5 | 24.6 | 45.4 | 53.6 |
| South Dakota | 55.3 | 52.7 | 22.8 | 41.7 | 49.0 |
| Tennessee | 55.8 | 66.5 | 24.5 | 47.9 | 49.5 |
| Texas | 60.2 | 74.9 | 40.0 | 56.8 | 66.2 |
| Utah | 59.4 | 64.7 | 33.8 | 43.1 | 50.9 |
| Vermont | 49.8 | 58.0 | 33.0 | 53.7 | 36.3 |
| Virginia | 49.4 | 61.0 | 27.8 | 46.6 | 52.5 |
| Washington | 62.3 | 63.7 | 34.9 | 49.3 | 45.2 |
| West Virginia | 49.2 | 67.1 | 29.4 | 54.3 | 57.2 |
| Wisconsin | 48.7 | 58.2 | 28.6 | 44.4 | 37.6 |
| Wyoming | 56.4 | 53.3 | 30.0 | 46.0 | 43.7 |

NOTE: Excludes a small number of teachers whose schools did not respond to the questionnaire.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993-94 (Teacher Questionnaire).

Table S40 Standard errors for the text table in *Indicator 40*

| Professional development topic and type of support received | Public | | | Private | | |
|--------------------------------------------------------------------------------------------------------------|--------|------------|-----------|---------|------------|-----------|
| | Total | Elementary | Secondary | Total | Elementary | Secondary |
| In-service education or professional development topic | | | | | | |
| Uses of educational technology for instruction | 0.5 | 0.6 | 0.5 | 0.8 | 0.9 | 1.2 |
| Methods of teaching in specific subject field | 0.4 | 0.6 | 0.4 | 0.6 | 0.8 | 1.4 |
| In-depth study in specific field | 0.3 | 0.5 | 0.3 | 0.4 | 0.5 | 1.1 |
| Student assessment | 0.4 | 0.6 | 0.5 | 0.7 | 1.0 | 1.3 |
| Cooperative learning in the classroom | 0.4 | 0.6 | 0.5 | 1.0 | 1.0 | 1.5 |
| Type of support received during the 1993–94 school year for in-service education or professional development | | | | | | |
| Released time from teaching | 0.4 | 0.7 | 0.4 | 0.9 | 1.1 | 1.0 |
| Scheduled time | 0.4 | 0.6 | 0.4 | 0.6 | 0.9 | 1.0 |
| Travel and/or per diem expenses | 0.4 | 0.6 | 0.3 | 0.6 | 0.8 | 1.1 |
| Tuition and/or fees | 0.3 | 0.5 | 0.3 | 0.8 | 0.9 | 1.4 |
| Professional growth credits | 0.4 | 0.5 | 0.3 | 0.6 | 0.7 | 0.9 |
| None of the above | 0.3 | 0.5 | 0.3 | 0.7 | 0.9 | 1.2 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993–94 (Teacher Questionnaire).

Table S40-1 Standard errors for table 40-1

| Control and level of school | Participated in a formal teacher induction program during first year of teaching | | | Master or mentor program |
|-----------------------------|-------------------------------------------------------------------------------------|------------|-----------------|-----------------------------|
| | 1 year | 2-3 years | 4 years or more | |
| Public | 2.1 | 1.6 | 0.4 | 0.3 |
| Elementary | 2.8 | 2.2 | 0.5 | 0.4 |
| Secondary | 1.8 | 1.4 | 0.4 | 0.3 |
| Private | 2.6 | 1.6 | 0.6 | 0.5 |
| Elementary | 3.0 | 1.7 | 0.7 | 0.6 |
| Secondary | 4.2 | 3.2 | 1.1 | 0.9 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993-94 (Teacher Questionnaire).

Table S40-2 Standard errors for table 40-2

| Topic, type of support and activity, and outcomes of professional development | Elementary teachers | | | | Secondary teachers | | | |
|-------------------------------------------------------------------------------------------------------------|---------------------|------|-----------------------|---------------|--------------------|------|-----------------------|---------------|
| | Central | | Urban | Rural/ | Central | | Urban | Rural/ |
| | Total | city | fringe/ large town | small town | Total | city | fringe/ large town | small town |
| Public | | | | | | | | |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 0.6 | 1.2 | 1.4 | 1.0 | 0.5 | 1.1 | 0.8 | 0.7 |
| Methods of teaching in specific subject field | 0.6 | 1.1 | 1.0 | 0.9 | 0.4 | 1.0 | 0.6 | 0.6 |
| In-depth study in specific field | 0.5 | 1.1 | 1.0 | 0.8 | 0.3 | 0.7 | 0.6 | 0.5 |
| Student assessment | 0.6 | 1.1 | 1.1 | 0.9 | 0.5 | 0.8 | 0.6 | 0.7 |
| Cooperative learning in the classroom | 0.6 | 1.2 | 1.2 | 0.9 | 0.5 | 1.1 | 0.9 | 0.7 |
| Type of support received during 1993–94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 0.7 | 1.2 | 1.3 | 1.1 | 0.4 | 0.9 | 0.7 | 0.5 |
| Scheduled time (built-in time) | 0.6 | 0.9 | 1.3 | 0.9 | 0.4 | 0.8 | 0.8 | 0.6 |
| Travel and/or per diem expenses | 0.6 | 0.9 | 1.1 | 0.9 | 0.3 | 0.7 | 0.8 | 0.5 |
| Tuition and/or fees | 0.5 | 1.0 | 1.1 | 0.7 | 0.3 | 0.6 | 0.6 | 0.6 |
| Professional growth credits | 0.5 | 1.1 | 1.2 | 0.8 | 0.3 | 0.8 | 0.7 | 0.6 |
| None of above | 0.5 | 0.8 | 0.9 | 0.8 | 0.3 | 0.7 | 0.6 | 0.6 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 0.4 | 0.7 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.4 |
| School sponsored workshop or in-service | 0.5 | 0.8 | 0.9 | 0.7 | 0.4 | 0.8 | 0.7 | 0.4 |
| University extension or adult education course | 0.5 | 0.9 | 1.0 | 0.8 | 0.4 | 0.9 | 0.6 | 0.5 |
| College course in specific subject field | 0.5 | 0.8 | 1.0 | 0.8 | 0.3 | 0.8 | 0.5 | 0.5 |
| Professional association sponsored workshop | 0.6 | 1.1 | 1.2 | 0.9 | 0.4 | 0.9 | 0.7 | 0.5 |
| Those who agreed with the following statements about their in-service education or professional development | | | | | | | | |
| Provided information that was new to me | 0.4 | 0.7 | 0.7 | 0.7 | 0.3 | 0.8 | 0.6 | 0.4 |
| Changed my views on teaching | 0.6 | 1.1 | 1.2 | 0.9 | 0.5 | 0.9 | 0.7 | 0.6 |
| Caused me to change my teaching practices | 0.5 | 1.1 | 1.2 | 0.8 | 0.4 | 1.0 | 0.7 | 0.6 |
| Caused me to seek further information or training | 0.6 | 1.1 | 1.1 | 0.8 | 0.4 | 0.9 | 0.8 | 0.7 |
| Were generally a waste of my time | 0.4 | 0.6 | 0.7 | 0.6 | 0.3 | 0.8 | 0.5 | 0.4 |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 0.9 | 1.3 | 1.5 | 1.7 | 1.2 | 1.6 | 2.1 | 2.7 |
| Methods of teaching in specific subject field | 0.8 | 1.4 | 1.2 | 1.7 | 1.4 | 2.0 | 2.1 | 2.6 |
| In-depth study in specific field | 0.5 | 1.0 | 1.0 | 1.7 | 1.1 | 1.8 | 1.5 | 2.7 |
| Student assessment | 1.0 | 1.3 | 1.7 | 2.1 | 1.3 | 1.5 | 2.2 | 3.5 |
| Cooperative learning in the classroom | 1.0 | 1.4 | 1.6 | 2.3 | 1.5 | 2.1 | 2.0 | 3.0 |
| Type of support received during 1993–94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 1.1 | 1.8 | 1.6 | 2.3 | 1.0 | 1.5 | 1.4 | 3.1 |
| Scheduled time (built-in time) | 0.9 | 1.2 | 1.4 | 1.7 | 1.0 | 1.8 | 1.8 | 2.4 |
| Travel and/or per diem expenses | 0.8 | 1.3 | 1.2 | 2.2 | 1.1 | 1.3 | 1.7 | 4.6 |
| Tuition and/or fees | 0.9 | 1.4 | 1.6 | 2.2 | 1.4 | 1.6 | 1.9 | 4.7 |
| Professional growth credits | 0.7 | 1.2 | 1.5 | 2.0 | 0.9 | 1.4 | 1.8 | 3.2 |
| None of above | 0.9 | 1.3 | 1.5 | 2.0 | 1.2 | 1.4 | 2.1 | 3.5 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 1.0 | 1.1 | 1.4 | 1.8 | 1.4 | 1.2 | 2.0 | 4.6 |
| School sponsored workshop or in-service | 0.8 | 1.2 | 1.4 | 2.0 | 1.0 | 1.4 | 1.6 | 2.8 |
| University extension or adult education course | 0.9 | 1.3 | 1.1 | 2.2 | 1.0 | 1.3 | 1.7 | 2.7 |
| College course in specific subject field | 0.8 | 1.4 | 0.9 | 1.8 | 1.2 | 1.6 | 1.5 | 2.2 |
| Professional association sponsored workshop | 1.0 | 1.7 | 1.9 | 1.8 | 1.2 | 1.9 | 1.9 | 4.5 |
| Those who agreed with the following statements about their in-service education or professional development | | | | | | | | |
| Provided information that was new to me | 0.7 | 1.1 | 0.9 | 1.7 | 0.9 | 1.2 | 1.4 | 1.8 |
| Changed my views on teaching | 0.8 | 1.2 | 1.5 | 2.0 | 1.5 | 1.6 | 2.3 | 3.3 |
| Caused me to change my teaching practices | 1.0 | 1.6 | 1.5 | 2.1 | 1.6 | 2.0 | 2.3 | 3.2 |
| Caused me to seek further information or training | 0.6 | 1.3 | 1.3 | 1.9 | 1.3 | 1.9 | 2.2 | 3.7 |
| Were generally a waste of my time | 0.4 | 0.6 | 0.7 | 0.9 | 0.8 | 1.2 | 1.1 | 1.8 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993–94 (Teacher Questionnaire).

Table S40-3 Standard errors for table 40-3

| Topic, type of support and activity, and outcomes of professional development | Elementary teachers | | | | Secondary teachers | | | |
|-------------------------------------------------------------------------------------------------------------|---------------------|------|-------|--------|--------------------|------|-------|--------|
| | 0-5 | 6-20 | 21-40 | 41-100 | 0-5 | 6-20 | 21-40 | 41-100 |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 2.5 | 1.3 | 1.5 | 0.8 | 1.2 | 0.8 | 1.2 | 1.0 |
| Methods of teaching in specific subject field | 2.0 | 1.5 | 1.1 | 0.9 | 1.0 | 0.7 | 1.1 | 0.8 |
| In-depth study in specific field | 2.1 | 1.3 | 1.0 | 0.8 | 0.8 | 0.5 | 0.9 | 0.7 |
| Student assessment | 2.2 | 1.5 | 1.3 | 0.8 | 1.0 | 0.8 | 1.1 | 0.9 |
| Cooperative learning in the classroom | 2.8 | 1.1 | 1.3 | 0.8 | 1.4 | 0.8 | 1.0 | 0.9 |
| Type of support received during 1993-94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 2.0 | 1.7 | 1.2 | 0.9 | 0.9 | 0.8 | 0.7 | 0.8 |
| Scheduled time (built-in time) | 2.3 | 1.4 | 1.2 | 0.8 | 1.0 | 0.7 | 0.7 | 0.9 |
| Travel and/or per diem expenses | 2.1 | 1.1 | 1.2 | 0.7 | 1.0 | 0.6 | 0.8 | 0.8 |
| Tuition and/or fees | 2.1 | 1.0 | 1.2 | 0.8 | 0.8 | 0.6 | 0.7 | 0.6 |
| Professional growth credits | 2.3 | 1.3 | 1.4 | 0.8 | 1.3 | 0.6 | 0.8 | 0.8 |
| None of above | 1.6 | 1.0 | 1.0 | 0.7 | 1.0 | 0.6 | 0.6 | 0.7 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 1.4 | 0.8 | 0.7 | 0.6 | 0.9 | 0.5 | 0.6 | 0.7 |
| School sponsored workshop or in-service | 2.0 | 1.0 | 1.0 | 0.6 | 1.0 | 0.6 | 0.7 | 0.8 |
| University extension or adult education course | 1.9 | 1.1 | 1.1 | 0.6 | 0.9 | 0.6 | 0.7 | 0.8 |
| College course in specific subject field | 1.7 | 1.0 | 1.0 | 0.7 | 0.8 | 0.6 | 0.8 | 0.8 |
| Professional association sponsored workshop | 2.1 | 1.7 | 1.0 | 0.8 | 1.0 | 0.7 | 0.9 | 0.8 |
| Those who agreed with the following statements about their in-service education or professional development | | | | | | | | |
| Provided information that was new to me | 1.2 | 1.0 | 0.7 | 0.6 | 0.7 | 0.5 | 0.8 | 0.7 |
| Changed my views on teaching | 2.4 | 1.4 | 1.0 | 0.8 | 1.2 | 0.7 | 0.9 | 0.8 |
| Caused me to change my teaching practices | 1.6 | 1.5 | 1.2 | 0.9 | 1.1 | 0.8 | 0.8 | 1.0 |
| Caused me to seek further information or training | 1.8 | 1.2 | 1.2 | 0.9 | 1.0 | 0.7 | 1.1 | 0.9 |
| Were generally a waste of my time | 1.1 | 0.9 | 0.7 | 0.6 | 0.8 | 0.6 | 0.7 | 0.7 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993-94

(Teacher Questionnaire).

Table S40-4 Standard errors for table 40-4

| Topic, type of support and activity, and outcomes of professional development | Elementary teachers | | | | Secondary teachers | | | |
|-------------------------------------------------------------------------------------------------------------|---------------------|---------|---------|-------------|--------------------|---------|---------|-------------|
| | Less than 150 | 150-499 | 500-749 | 750 or more | Less than 150 | 150-499 | 500-749 | 750 or more |
| Public | | | | | | | | |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 2.6 | 0.8 | 1.1 | 2.0 | 2.3 | 0.9 | 1.0 | 0.6 |
| Methods of teaching in specific subject field | 2.8 | 0.8 | 1.0 | 1.5 | 1.9 | 0.8 | 1.1 | 0.6 |
| In-depth study in specific field | 2.3 | 0.8 | 0.8 | 1.0 | 1.6 | 0.7 | 0.9 | 0.4 |
| Student assessment | 2.9 | 0.9 | 1.0 | 1.4 | 1.9 | 1.1 | 1.2 | 0.6 |
| Cooperative learning in the classroom | 2.8 | 0.9 | 1.1 | 1.3 | 1.8 | 0.9 | 1.2 | 0.7 |
| Type of support received during 1993–94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 2.6 | 0.9 | 1.1 | 1.6 | 1.5 | 0.7 | 1.1 | 0.5 |
| Scheduled time (built-in time) | 2.3 | 1.0 | 1.0 | 1.4 | 1.4 | 0.8 | 0.9 | 0.6 |
| Travel and/or per diem expenses | 2.0 | 0.8 | 0.9 | 1.4 | 1.6 | 0.8 | 0.9 | 0.6 |
| Tuition and/or fees | 2.3 | 0.7 | 0.8 | 1.4 | 1.6 | 0.7 | 1.0 | 0.4 |
| Professional growth credits | 2.1 | 0.9 | 1.0 | 1.6 | 1.8 | 0.7 | 0.9 | 0.5 |
| None of above | 1.8 | 0.7 | 0.8 | 1.2 | 1.1 | 0.7 | 0.9 | 0.5 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 1.8 | 0.5 | 0.7 | 1.0 | 1.4 | 0.8 | 0.8 | 0.4 |
| School sponsored workshop or in-service | 2.5 | 0.7 | 1.0 | 1.1 | 1.2 | 0.9 | 0.8 | 0.5 |
| University extension or adult education course | 2.5 | 0.7 | 1.1 | 1.2 | 1.6 | 0.8 | 1.0 | 0.5 |
| College course in specific subject field | 1.9 | 0.7 | 0.9 | 1.2 | 1.7 | 0.7 | 0.9 | 0.3 |
| Professional association sponsored workshop | 2.0 | 1.0 | 1.0 | 1.2 | 1.8 | 0.8 | 0.9 | 0.6 |
| Those who agreed with the following statements about their in-service education or professional development | | | | | | | | |
| Provided information that was new to me | 2.8 | 0.6 | 0.7 | 0.8 | 1.6 | 0.7 | 0.8 | 0.4 |
| Changed my views on teaching | 2.5 | 0.8 | 1.1 | 1.5 | 1.8 | 0.8 | 1.0 | 0.6 |
| Caused me to change my teaching practices | 2.8 | 1.0 | 0.9 | 1.3 | 1.7 | 0.8 | 0.8 | 0.6 |
| Caused me to seek further information or training | 2.5 | 0.8 | 1.2 | 1.4 | 1.9 | 0.9 | 1.0 | 0.5 |
| Were generally a waste of my time | 0.9 | 0.6 | 0.5 | 0.8 | 1.7 | 0.6 | 0.7 | 0.4 |
| In-service education or professional development topic | | | | | | | | |
| Uses of educational technology for instruction | 1.6 | 1.1 | 3.0 | 6.9 | 3.1 | 2.1 | 2.2 | 2.2 |
| Methods of teaching in specific subject field | 1.3 | 1.2 | 2.4 | 4.2 | 4.8 | 2.4 | 2.5 | 1.7 |
| In-depth study in specific field | 1.3 | 0.8 | 1.7 | 4.8 | 4.4 | 1.7 | 2.4 | 1.8 |
| Student assessment | 1.7 | 1.2 | 3.1 | 6.6 | 3.3 | 1.6 | 2.8 | 2.2 |
| Cooperative learning in the classroom | 1.8 | 1.2 | 2.8 | 6.7 | 3.8 | 2.3 | 3.0 | 2.2 |
| Type of support received during 1993–94 school year for in-service education or professional development | | | | | | | | |
| Released time from teaching | 2.0 | 1.3 | 2.5 | 7.3 | 3.7 | 1.9 | 2.4 | 1.7 |
| Scheduled time (built-in time) | 1.7 | 1.3 | 2.2 | 5.5 | 4.2 | 1.6 | 2.6 | 1.9 |
| Travel and/or per diem expenses | 1.8 | 1.1 | 1.9 | 5.1 | 4.0 | 1.6 | 3.0 | 2.6 |
| Tuition and/or fees | 1.7 | 1.2 | 2.1 | 7.1 | 3.6 | 2.2 | 3.0 | 2.6 |
| Professional growth credits | 1.1 | 1.2 | 2.4 | 6.2 | 2.7 | 1.6 | 2.0 | 2.5 |
| None of above | 1.8 | 1.1 | 1.7 | 6.4 | 4.1 | 1.9 | 2.1 | 2.1 |
| Type of professional development activity | | | | | | | | |
| School district sponsored workshop or in-service | 2.4 | 1.6 | 2.9 | 2.0 | 4.1 | 1.8 | 2.0 | 2.5 |
| School sponsored workshop or in-service | 1.9 | 1.0 | 1.5 | 3.9 | 4.7 | 1.6 | 1.7 | 1.5 |
| University extension or adult education course | 1.5 | 1.0 | 1.8 | 5.2 | 3.4 | 1.8 | 1.9 | 2.3 |
| College course in specific subject field | 1.3 | 1.0 | 3.0 | 3.2 | 2.8 | 1.9 | 1.7 | 1.6 |
| Professional association sponsored workshop | 1.6 | 1.3 | 2.7 | 5.5 | 4.5 | 2.0 | 2.6 | 2.2 |
| Those who agreed with the following statements about their in-service education or professional development | | | | | | | | |
| Provided information that was new to me | 1.4 | 0.9 | 1.9 | 5.4 | 1.9 | 1.4 | 1.9 | 1.7 |
| Changed my views on teaching | 1.9 | 1.0 | 3.3 | 4.3 | 5.6 | 2.3 | 2.3 | 2.3 |
| Caused me to change my teaching practices | 1.8 | 1.0 | 3.1 | 5.0 | 4.6 | 2.3 | 2.4 | 1.8 |
| Caused me to seek further information or training | 2.2 | 0.9 | 2.8 | 4.0 | 3.6 | 2.2 | 3.0 | 2.3 |
| Were generally a waste of my time | 0.9 | 0.5 | 1.1 | 4.6 | 2.2 | 1.7 | 1.2 | 1.3 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993–94 (Teacher Questionnaire).

Table S40-5 Standard errors for table 40-5

| Topic, type of support and activity, and outcomes of professional development | Central city | | | | Urban fringe/large town | | | | Rural/small town | | | |
|------------------------------------------------------------------------------------------------------------|--------------|------|-------|--------|-------------------------|------|-------|--------|------------------|------|-------|--------|
| | 0-5 | 6-20 | 21-40 | 41-100 | 0-5 | 6-20 | 21-40 | 41-100 | 0-5 | 6-20 | 21-40 | 41-100 |
| In-service education or professional development topic | | | | | | | | | | | | |
| Uses of educational technology for instruction | 3.3 | 2.0 | 2.1 | 1.3 | 2.0 | 1.4 | 1.8 | 2.3 | 1.9 | 1.2 | 1.6 | 1.2 |
| Methods of teaching in specific subject field | 3.1 | 1.6 | 1.4 | 1.1 | 1.6 | 1.3 | 1.8 | 2.0 | 1.9 | 1.2 | 1.1 | 0.9 |
| In-depth study in specific field | 2.6 | 1.5 | 1.6 | 1.3 | 1.4 | 1.5 | 1.5 | 1.5 | 2.5 | 0.9 | 0.9 | 0.8 |
| Student assessment | 3.1 | 1.5 | 1.8 | 1.2 | 1.8 | 1.5 | 2.0 | 1.5 | 2.3 | 1.1 | 1.1 | 1.1 |
| Cooperative learning in the classroom | 3.2 | 1.8 | 1.8 | 1.2 | 1.9 | 1.4 | 1.8 | 1.6 | 2.4 | 1.1 | 1.3 | 1.1 |
| Type of support received during 1993-94 school year for in-service education or professional development | | | | | | | | | | | | |
| Released time from teaching | 3.1 | 2.0 | 1.6 | 1.3 | 1.8 | 1.4 | 1.9 | 2.1 | 2.3 | 1.3 | 1.1 | 1.2 |
| Scheduled time (built-in time) | 2.3 | 1.7 | 2.2 | 1.0 | 2.0 | 1.7 | 1.8 | 1.6 | 2.3 | 1.1 | 0.9 | 0.9 |
| Travel and/or per diem expenses | 2.5 | 1.8 | 1.2 | 1.1 | 1.8 | 1.1 | 1.3 | 1.2 | 2.2 | 0.8 | 1.3 | 0.8 |
| Tuition and/or fees | 1.6 | 1.7 | 1.2 | 1.2 | 1.7 | 1.0 | 1.4 | 1.6 | 2.3 | 0.9 | 1.0 | 0.9 |
| Professional growth credits | 4.3 | 1.5 | 1.9 | 1.1 | 1.6 | 1.3 | 1.9 | 1.9 | 2.3 | 1.1 | 1.4 | 0.9 |
| None of above | 2.0 | 1.5 | 1.3 | 1.0 | 1.5 | 0.9 | 1.4 | 1.6 | 1.9 | 0.8 | 1.2 | 0.8 |
| Type of professional development activity | | | | | | | | | | | | |
| School district sponsored workshop or in-service | 1.7 | 1.1 | 1.0 | 0.9 | 1.2 | 0.9 | 0.9 | 1.0 | 1.6 | 0.7 | 0.8 | 0.5 |
| School sponsored workshop or in-service | 2.5 | 1.3 | 1.1 | 0.8 | 1.3 | 1.2 | 1.6 | 1.1 | 2.7 | 0.8 | 0.8 | 0.8 |
| University extension or adult education course | 2.4 | 1.2 | 1.6 | 0.9 | 1.4 | 1.4 | 1.2 | 1.2 | 2.1 | 1.0 | 1.0 | 0.8 |
| College course in specific subject field | 2.3 | 1.2 | 1.3 | 0.8 | 1.5 | 0.9 | 1.2 | 1.4 | 1.8 | 0.9 | 0.8 | 0.9 |
| Professional association sponsored workshop | 2.4 | 1.6 | 1.5 | 1.3 | 1.8 | 1.5 | 1.6 | 1.9 | 2.1 | 1.1 | 1.1 | 0.9 |
| Those who agreed with the following statement about their in-service education or professional development | | | | | | | | | | | | |
| Provided information that was new to me | 2.5 | 1.0 | 1.6 | 0.8 | 0.9 | 0.9 | 1.1 | 1.3 | 1.6 | 0.9 | 0.9 | 0.9 |
| Changed my views on teaching | 2.7 | 1.7 | 1.5 | 1.3 | 1.8 | 1.3 | 1.6 | 1.8 | 1.9 | 1.2 | 1.3 | 1.0 |
| Caused me to change my teaching practices | 2.8 | 1.7 | 1.7 | 1.3 | 1.5 | 1.6 | 1.7 | 1.6 | 2.0 | 1.3 | 1.2 | 1.0 |
| Caused me to seek further information or training | 3.5 | 1.8 | 2.0 | 1.4 | 1.4 | 1.1 | 2.0 | 1.6 | 1.4 | 1.3 | 1.1 | 1.0 |
| Were generally a waste of my time | 1.9 | 1.2 | 1.2 | 0.8 | 0.9 | 0.9 | 1.0 | 1.0 | 1.4 | 0.8 | 0.8 | 0.7 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993-94 (Teacher Questionnaire).

Table S40-6 Standard errors for table 40-6

| State | Uses of educational technology for instruction | Methods of teaching in your subject field | In-depth study in your subject field | Student assessment | Cooperative learning in the classroom |
|----------------------|------------------------------------------------------|-------------------------------------------------|-----------------------------------------|-----------------------|---------------------------------------------|
| All states | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 |
| Alabama | 1.8 | 1.5 | 2.2 | 2.5 | 2.4 |
| Alaska | 2.2 | 1.8 | 1.5 | 2.9 | 2.3 |
| Arizona | 2.3 | 1.7 | 1.6 | 2.0 | 1.9 |
| Arkansas | 2.2 | 1.8 | 1.8 | 1.9 | 1.9 |
| California | 2.3 | 1.6 | 1.7 | 1.7 | 1.9 |
| Colorado | 2.4 | 1.4 | 1.7 | 1.7 | 2.2 |
| Connecticut | 1.9 | 1.8 | 1.3 | 1.5 | 1.8 |
| Delaware | 2.8 | 2.1 | 2.2 | 1.7 | 2.5 |
| District of Columbia | 3.1 | 3.2 | 2.3 | 2.5 | 3.2 |
| Florida | 1.5 | 1.7 | 2.3 | 2.0 | 2.4 |
| Georgia | 1.6 | 1.8 | 1.2 | 2.2 | 2.1 |
| Hawaii | 2.5 | 2.0 | 2.7 | 2.3 | 2.3 |
| Idaho | 2.3 | 1.9 | 1.9 | 2.0 | 2.1 |
| Illinois | 1.5 | 1.3 | 1.1 | 1.2 | 1.5 |
| Indiana | 1.8 | 2.3 | 1.3 | 1.9 | 2.4 |
| Iowa | 2.9 | 2.2 | 1.8 | 2.1 | 2.4 |
| Kansas | 1.7 | 1.6 | 1.3 | 1.9 | 1.7 |
| Kentucky | 2.2 | 1.8 | 3.0 | 1.0 | 2.3 |
| Louisiana | 2.1 | 1.4 | 1.6 | 1.8 | 1.8 |
| Maine | 1.9 | 2.3 | 2.0 | 2.6 | 2.1 |
| Maryland | 1.8 | 1.9 | 1.8 | 2.2 | 1.9 |
| Massachusetts | 1.3 | 1.2 | 1.3 | 1.2 | 1.2 |
| Michigan | 2.1 | 2.1 | 1.8 | 2.7 | 1.8 |
| Minnesota | 2.3 | 2.0 | 1.8 | 2.5 | 2.4 |
| Mississippi | 1.9 | 2.2 | 1.5 | 2.2 | 2.1 |
| Missouri | 2.3 | 1.9 | 1.4 | 1.8 | 2.1 |
| Montana | 1.8 | 1.4 | 1.3 | 1.3 | 1.5 |
| Nebraska | 2.2 | 1.5 | 1.5 | 1.7 | 1.8 |
| Nevada | 2.4 | 2.0 | 2.2 | 2.4 | 1.9 |
| New Hampshire | 2.7 | 2.3 | 2.8 | 2.2 | 2.4 |
| New Jersey | 2.5 | 2.1 | 2.1 | 2.6 | 2.2 |
| New Mexico | 1.8 | 1.7 | 1.7 | 1.9 | 2.1 |
| New York | 2.1 | 2.2 | 1.6 | 2.4 | 2.0 |
| North Carolina | 2.3 | 1.9 | 1.9 | 1.9 | 1.8 |
| North Dakota | 1.9 | 1.9 | 1.6 | 2.2 | 1.7 |
| Ohio | 2.0 | 1.9 | 1.7 | 1.5 | 2.2 |
| Oklahoma | 2.3 | 1.8 | 1.7 | 1.3 | 2.0 |
| Oregon | 2.1 | 2.3 | 1.7 | 2.5 | 2.5 |
| Pennsylvania | 2.3 | 2.0 | 1.6 | 2.0 | 2.4 |
| Rhode Island | 2.2 | 3.0 | 1.8 | 3.0 | 3.5 |
| South Carolina | 2.8 | 2.8 | 2.2 | 2.4 | 2.3 |
| South Dakota | 2.7 | 1.5 | 1.6 | 2.2 | 1.5 |
| Tennessee | 2.4 | 2.3 | 1.8 | 2.0 | 2.2 |
| Texas | 1.9 | 1.7 | 1.7 | 1.7 | 1.3 |
| Utah | 2.0 | 1.3 | 1.2 | 1.7 | 1.3 |
| Vermont | 2.8 | 2.2 | 2.0 | 2.8 | 2.0 |
| Virginia | 2.4 | 2.4 | 2.1 | 2.2 | 2.9 |
| Washington | 2.0 | 1.7 | 1.8 | 2.1 | 2.5 |
| West Virginia | 2.5 | 2.0 | 1.9 | 2.2 | 2.0 |
| Wisconsin | 2.2 | 2.3 | 1.8 | 2.3 | 2.3 |
| Wyoming | 1.5 | 1.5 | 1.0 | 1.9 | 1.8 |

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1993-94 (Teacher Questionnaire).